



## Preface

This volume contains the proceedings of the 5th Workshop on Methods for Modalities (M4M5). The workshop was held in Cachan, France on November 29 and 30, 2007. The series started eight years ago in Amsterdam, host of M4M 1999 and M4M 2001, and then moved to Nancy (M4M 2003) and Berlin (M4M 2005). The 6th Workshop on Methods for Modalities will take place in Copenhagen, Denmark in 2009.

The workshop “Methods for Modalities” (M4M) aims to bring together researchers interested in developing algorithms, verification methods and tools based on modal logic. Here the term “modal logics” is conceived broadly, including description logic, guarded fragments, conditional logic, temporal and hybrid logic, etc.

In addition to the 22 contributed papers (selected from over 42 submissions), the scientific program of M4M 2007 included invited talks given by

- **Ahmed Bouajjani**  
“Rewrite systems with data. A framework for reasoning about systems with unbounded structures and data domains”
- **Patricia Bouyer**  
“Model-Checking Timed Temporal Logics”
- **Balder ten Cate**  
“XML from the viewpoint of modal logic”
- **Koen Claessen**  
“Finite Model Finding: Implementation Techniques and Non-standard Applications”
- **Wiebe van der Hoek**  
“Extended Modal Logic for Social Software”.

Each submission was reviewed by at least two program committee members. A large number of submitted papers were of high quality; however, given the time constraints of the workshop, only 22 papers could be accepted for presentation. Among these 22 papers, 5 contributions are system description papers, 2 contributions are presentation-only papers (already presented in other conferences), and 15 contri-

butions are regular original papers. The present ENTCS volume contains invited papers (from invited talks) and contributed papers for which a second refereeing round has been organized after the workshop.

We are most grateful to the members of the program committee and all additional reviewers for their work (before and after the workshop). We are indebted to all the members of the organizing committee for their support, which included setting up and maintaining web pages. We would especially like to thank Geneviève Quéau and Arnaud Sangnier for their help.

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### **M4M5 Program Committee**

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**M4M5 Organizing committee** Rémi Brochenin, Stéphane Demri, Diego Figueira, Catherine Forestier, Etienne Lozes, Geneviève Quéau, Arnaud Sangnier.

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*Carlos Areces  
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